

Webster University

Course Title: Introduction to Measurement and Statistics
Course #: PSYC2750

Instructor: Rob Curry

Meets: Thursday evenings, 5:30pm - 9:30pm

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COURSE DESCRIPTION AND OBJECTIVES

This course provides an introduction to measurement and statistical concepts, including an overview of research methodology, measures of central tendency, statistical analyses of data (e.g. correlations, ANOVA, etc.), and probabilities. Each student should bring her/his own textbook and a calculator to class each week.

REQUIRED TEXTBOOK

McClave, James T. and Sincich, Terry, A First Course in Statistics, 10e
Prentice Hall ISBN: 978-0-13-615259-0

COURSE REQUIREMENTS

Students are expected to complete all assigned readings for the course, consisting of textbook readings and additional articles distributed throughout the semester.

Midterm exam	40%
Final exam	50% (comprehensive)
In class submittals	10%

COURSE SCHEDULE

Week I	Introduction, Review of Math Statistics, Data, and Statistical Thinking Methods for Describing Sets of Data	Chapter 1 Sections 2.1, 2.2
Week II	Methods for Describing Sets of Data Probability	Sections 2.3 – 2.9 Chapter 3
Week III	Random Variables and Prob. Dist. Review for Quiz 1	Chapter 4
Week IV	Inferences Based on a Single Sample Midterm Exam	Chapter 5 Chapters 1 - 4
Week V	Tests of Hypothesis	Chapter 6
Week VI	Comparing Population Means Comparing Population Proportions	Chapter 7 Chapter 8
Week VII	Simple Linear Regression Review for Quiz 2	Chapter 9
Week VIII	Final Exam (comprehensive) Projects Due	Chapters 1 - 9

We will discuss the project submittals on the first night of class. I will distribute samples (with answers) for the two exams.

Grading Scale

95-100 – A
93 – 94 – A-
91 – 92 – B+
87 – 90 – B
85 – 86 – B-
83 – 84 – C+
77 – 82 – C
70 – 76 – D
69 and below – F